

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P452295

Luminaire Tested: **GALN-SA3B-727-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452295
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10620 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

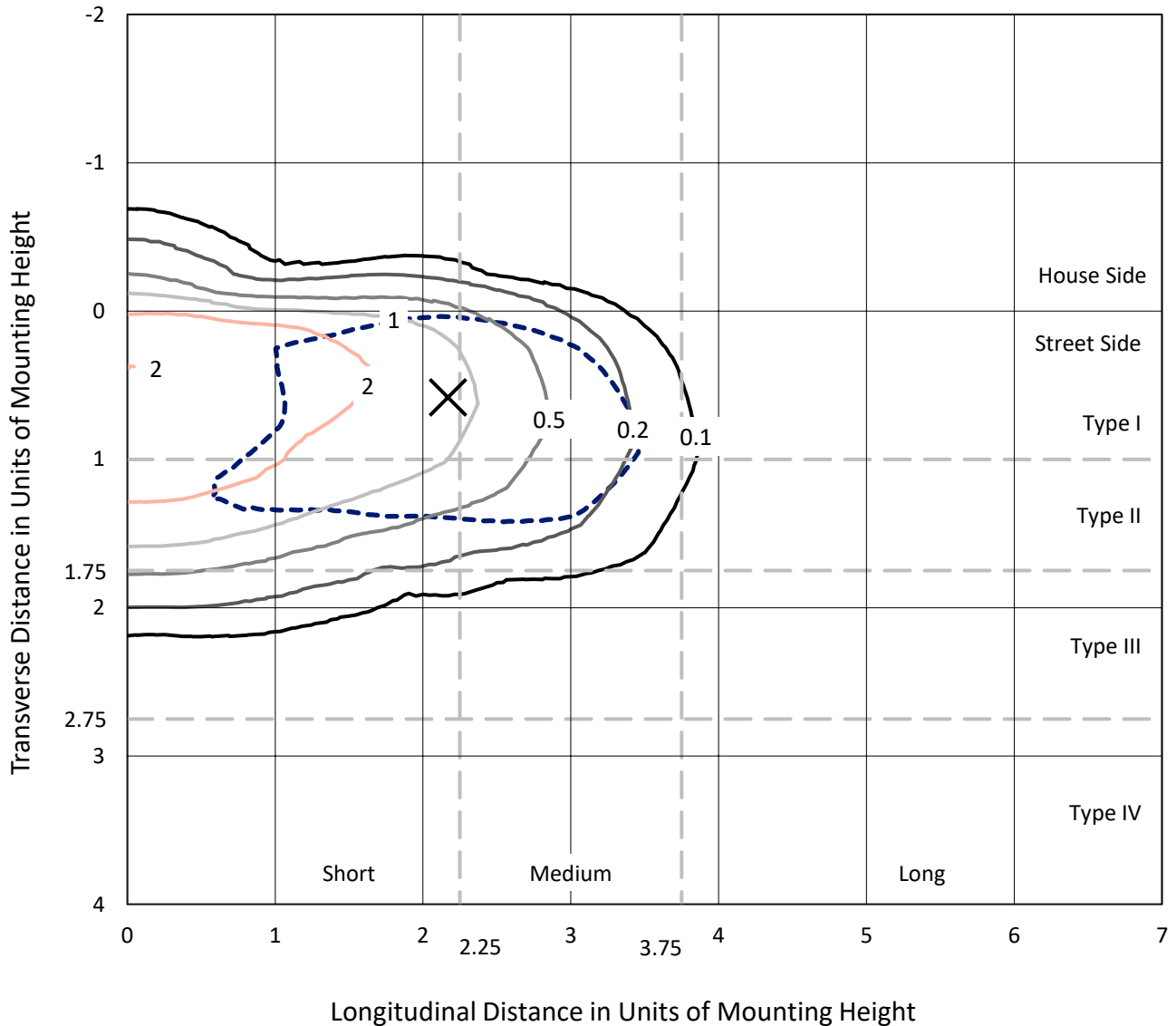
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

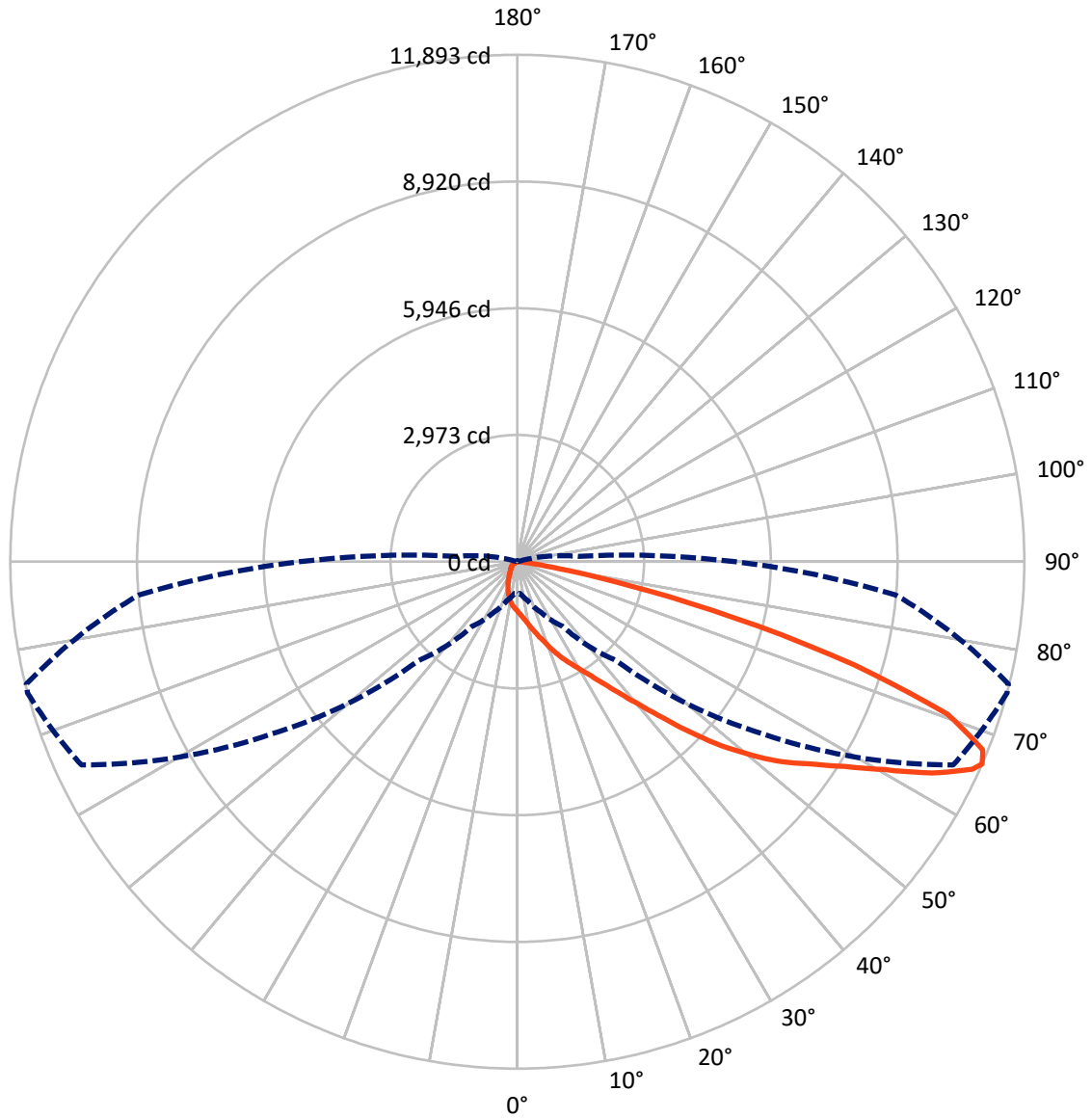
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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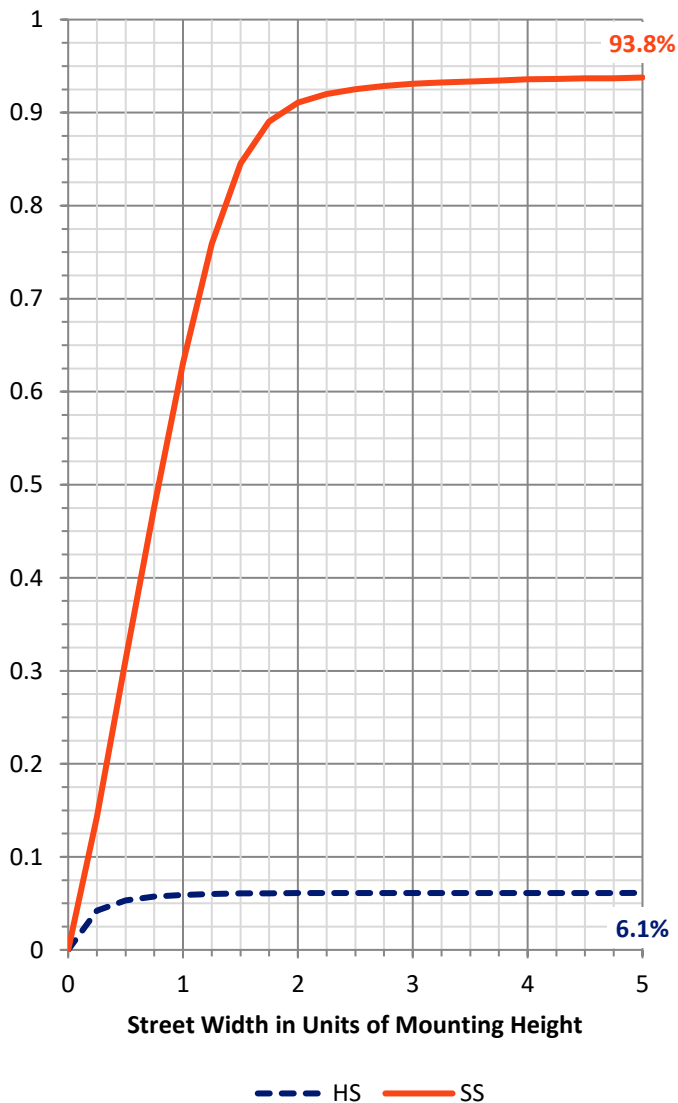
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	655.6	0.0	655.6
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	9964.4	0.0	9964.4
	% Fixture	93.8	0.0	93.8
Total	Lumens	10620.0	0.0	10620.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.0	1.1
10°-20°	329.7	3.1
20°-30°	569.3	5.4
30°-40°	1026.9	9.7
40°-50°	1855.1	17.5
50°-60°	2892.0	27.2
60°-70°	2747.3	25.9
70°-80°	1029.6	9.7
80°-90°	58.1	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	10620.0	100.0
0°-180°	10620.0	100.0

Coefficient of Utilization



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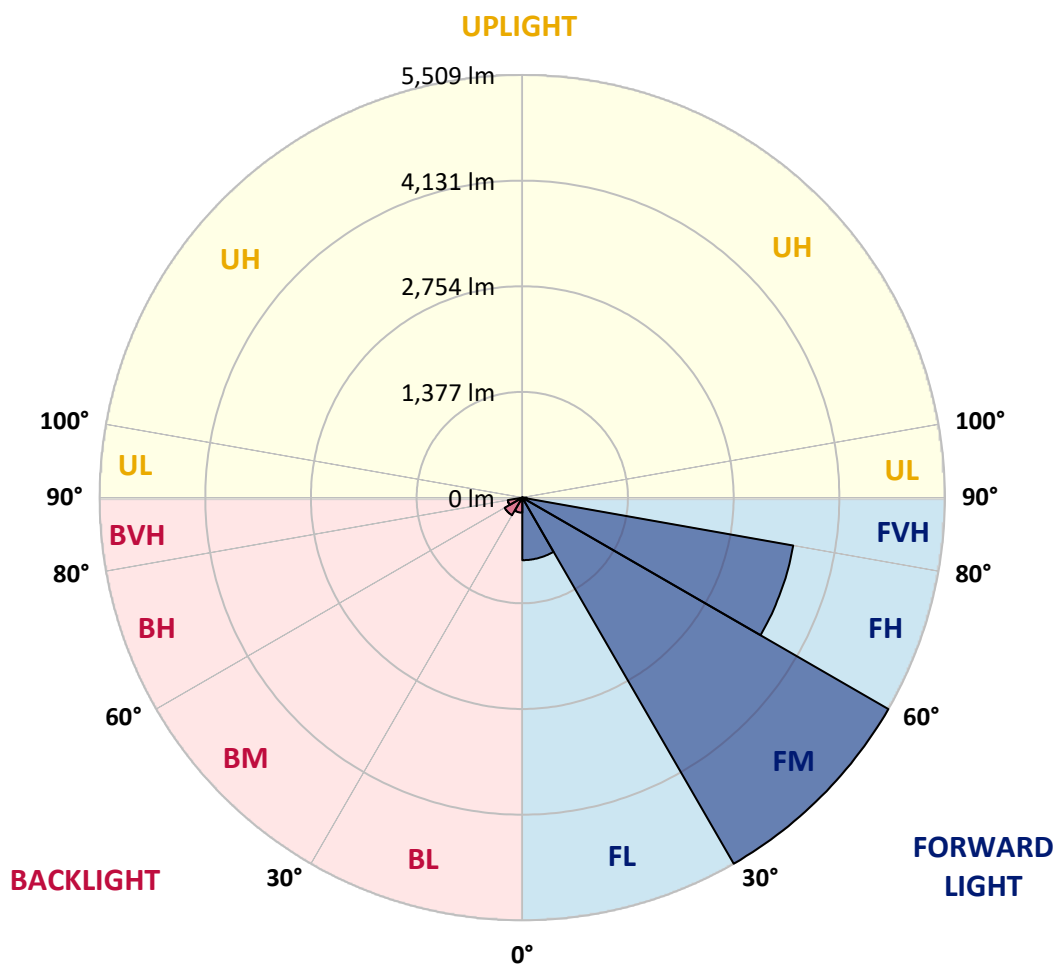
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	815.2	7.7			
FM (30°-60°)	5508.6	51.9			
FH (60°-80°)	3585.5	33.8			G2/5000
FVH (80°-90°)	55.1	0.5			G1/100
BL (0°-30°)	195.8	1.8	B1/500		
BM (30°-60°)	265.4	2.5	B1/1000		
BH (60°-80°)	191.5	1.8	B1/500		G1/500
BVH (80°-90°)	3.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1161.4	1161.4	1161.4	1161.4	1161.4	1161.4	1161.4	1161.4	1161.4	1161.4	1161.4
2.5°	1387.6	1370.3	1375.8	1367.9	1349.9	1323.2	1299.6	1265.8	1232.1	1226.6	1188.9
5°	1570.5	1565.8	1559.5	1536.8	1524.2	1483.4	1434.7	1376.6	1306.7	1294.1	1225.8
7.5°	1695.4	1693.0	1696.2	1684.4	1673.4	1636.5	1584.7	1505.3	1397.0	1389.9	1276.1
10°	1736.2	1742.5	1754.3	1773.1	1790.4	1778.6	1739.4	1640.4	1514.0	1493.6	1333.4
12.5°	1712.7	1719.7	1748.0	1798.2	1854.0	1886.2	1870.5	1798.2	1638.1	1621.6	1397.8
15°	1652.2	1660.8	1700.9	1778.6	1878.3	1969.4	2008.7	1956.9	1782.5	1755.8	1475.5
17.5°	1562.7	1575.2	1632.6	1735.4	1872.1	2029.1	2139.8	2122.6	1936.5	1911.3	1560.3
20°	1495.1	1504.6	1553.2	1671.0	1845.4	2062.1	2264.7	2313.4	2126.5	2083.3	1660.0
22.5°	1539.9	1543.0	1559.5	1630.2	1797.5	2070.7	2374.6	2512.1	2328.3	2289.8	1763.7
25°	1759.0	1727.6	1711.1	1695.4	1787.3	2062.9	2474.4	2719.4	2529.3	2488.5	1866.6
27.5°	2104.5	2090.4	2007.1	1895.6	1874.4	2073.1	2540.3	2915.7	2718.6	2674.6	1967.1
30°	2480.6	2456.3	2405.3	2241.9	2077.8	2145.3	2588.2	3106.5	2942.4	2884.3	2059.0
32.5°	2826.2	2841.9	2765.7	2597.6	2407.6	2299.2	2650.3	3314.6	3199.2	3126.9	2165.8
35°	3229.0	3260.4	3143.4	2982.4	2760.2	2577.2	2771.2	3549.4	3525.0	3433.9	2330.7
37.5°	3638.1	3657.0	3585.5	3359.3	3159.1	2930.6	2998.9	3839.1	3926.3	3848.6	2527.8
40°	3982.1	4008.0	3955.4	3754.3	3540.7	3339.7	3329.5	4154.8	4403.7	4323.7	2821.4
42.5°	4245.1	4264.8	4266.3	4124.2	3931.8	3840.7	3751.2	4557.7	5002.1	4909.5	3162.2
45°	4577.3	4605.6	4589.1	4492.5	4348.8	4332.3	4286.0	5044.5	5718.3	5601.3	3604.4
47.5°	5090.9	5109.7	5068.9	4955.0	4808.9	4834.9	4807.4	5590.3	6448.6	6348.1	4062.2
50°	5447.4	5478.8	5536.9	5582.4	5476.4	5380.6	5298.9	6099.9	7142.0	7051.6	4530.2
52.5°	5443.4	5495.3	5679.0	5908.3	6140.0	6110.9	5876.1	6662.9	7803.9	7692.4	4969.9
55°	5076.7	5177.2	5447.4	5854.1	6495.7	6815.3	6708.5	7314.7	8375.6	8300.2	5479.6
57.5°	4319.7	4381.0	4756.3	5324.9	6297.0	7146.7	7672.8	8198.1	9061.1	9025.8	6271.1
60°	2905.5	2933.0	3415.9	4118.7	5361.0	6816.1	8379.5	9266.9	9905.3	9888.0	7195.4
62.5°	1664.8	1676.5	2026.8	2619.6	3814.8	5776.4	8439.2	10585.3	10917.5	10926.9	8264.9
65°	896.0	902.3	1185.0	1537.5	2321.2	4117.1	7588.8	11307.8	11735.7	11753.8	8927.6
66°	773.5	743.6	943.1	1310.6	1846.9	3276.9	7050.9	11281.9	11892.8	11873.2	8904.1
67.5°	588.2	614.9	753.1	1007.5	1368.7	2329.9	5821.1	10780.1	11773.4	11712.2	8542.1
70°	420.9	431.9	536.3	718.5	932.1	1278.4	3719.8	8953.6	10700.8	10618.3	7441.9
72.5°	271.7	283.5	380.1	519.8	673.8	698.1	2082.5	6469.0	8250.0	8238.2	5604.4
75°	194.0	205.0	251.3	372.2	506.5	431.9	1002.8	4359.8	5244.8	5209.4	3466.9
77.5°	140.6	146.1	168.0	243.4	362.0	309.4	464.9	2328.3	2611.0	2734.3	1532.0
80°	80.9	85.6	117.0	148.4	245.0	211.2	222.2	934.5	963.5	917.2	479.0
82.5°	40.0	45.5	69.9	101.3	153.1	142.1	102.1	281.1	296.8	289.0	120.9
85°	9.4	11.8	39.3	66.7	74.6	63.6	49.5	82.5	102.1	99.7	46.3
87.5°	0.8	1.6	14.1	11.8	12.6	21.2	17.3	21.2	33.0	30.6	16.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1161.4	1161.4	1161.4	1161.4	1161.4	1161.4	1161.4	1161.4	1161.4	1161.4	1161.4
2.5°	1171.6	1156.7	1113.5	1071.1	1035.8	998.9	965.1	945.5	937.6	929.0	932.9
5°	1188.1	1152.0	1064.8	989.4	915.6	852.8	802.5	770.3	754.6	752.3	748.4
7.5°	1210.1	1148.1	1013.0	895.2	798.6	728.7	671.4	625.1	610.9	598.4	588.2
10°	1236.8	1141.0	948.6	796.3	693.4	605.4	530.1	475.1	446.8	439.0	444.5
12.5°	1265.1	1127.6	881.1	705.2	586.6	474.3	404.4	376.9	369.1	365.9	366.7
15°	1293.3	1111.1	810.4	617.2	467.2	378.5	346.3	339.2	336.1	334.5	333.0
17.5°	1319.2	1084.4	731.1	531.6	378.5	323.5	311.7	305.5	299.2	296.8	292.9
20°	1349.9	1053.8	659.6	435.8	320.4	292.9	278.8	267.0	257.6	251.3	250.5
22.5°	1378.9	1014.6	585.0	361.2	292.1	263.1	240.3	227.7	216.7	208.9	211.2
25°	1394.6	966.7	518.3	314.9	266.2	233.2	208.1	192.4	180.6	176.7	175.9
27.5°	1394.6	907.8	453.1	288.2	242.6	206.5	180.6	165.7	157.8	152.3	153.1
30°	1383.6	842.6	392.6	267.8	222.2	183.0	158.6	145.3	139.0	135.1	134.3
32.5°	1375.0	780.6	340.8	248.1	201.0	162.5	141.3	131.1	124.9	120.9	120.9
35°	1388.3	727.2	300.8	228.5	181.4	146.8	128.0	118.6	112.3	109.2	108.4
37.5°	1423.7	678.5	270.1	207.3	163.3	133.5	118.6	107.6	101.3	97.4	95.8
40°	1510.8	651.0	247.4	187.7	146.1	122.5	107.6	97.4	89.5	85.6	84.8
42.5°	1650.6	651.8	225.4	169.6	132.7	113.1	98.2	86.4	77.7	73.8	73.0
45°	1861.1	681.6	208.1	152.3	120.9	102.9	87.9	75.4	67.5	63.6	63.6
47.5°	2113.1	739.7	193.2	137.4	109.9	93.4	77.7	65.2	57.3	54.2	54.2
50°	2386.4	815.1	178.3	121.7	100.5	83.2	66.7	56.5	50.3	47.9	47.9
52.5°	2665.2	906.2	163.3	109.2	90.3	72.2	57.3	50.3	44.8	43.2	42.4
55°	3031.1	1022.4	147.6	95.8	79.3	62.0	51.0	44.0	37.7	35.3	34.6
57.5°	3594.1	1197.5	130.4	84.0	65.2	51.8	44.0	36.9	29.8	25.9	25.1
60°	4273.4	1411.1	112.3	73.8	52.6	42.4	35.3	28.3	22.0	17.3	16.5
62.5°	4909.5	1547.0	95.0	62.0	41.6	32.2	25.1	21.2	15.7	11.0	10.2
65°	5190.6	1501.4	78.5	50.3	33.0	22.8	16.5	14.9	9.4	4.7	3.9
66°	5097.1	1433.9	72.2	45.5	29.8	19.6	14.1	12.6	7.1	2.4	2.4
67.5°	4821.5	1274.5	62.8	39.3	25.9	15.7	11.0	9.4	3.9	0.8	0.0
70°	4131.3	1031.0	49.5	29.1	18.8	11.0	6.3	4.7	2.4	0.0	0.0
72.5°	3173.2	768.0	39.3	22.0	13.3	6.3	3.1	1.6	2.4	0.0	0.0
75°	1944.3	439.0	30.6	16.5	8.6	3.9	2.4	0.0	2.4	0.8	0.0
77.5°	863.0	197.1	20.4	11.0	6.3	3.1	1.6	0.0	1.6	0.8	0.0
80°	218.3	64.4	11.8	7.9	4.7	2.4	0.8	0.0	1.6	1.6	0.8
82.5°	59.7	23.6	8.6	6.3	3.9	2.4	0.8	0.0	1.6	1.6	1.6
85°	23.6	11.0	7.9	6.3	4.7	2.4	0.8	0.0	1.6	1.6	1.6
87.5°	11.0	7.9	7.9	7.1	5.5	2.4	0.8	0.0	1.6	0.8	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)